CORNEA CHARACTERISTICS MEASURING DEVICE

ABSTRACT OF THE DISCLOSURE

An apparatus for measuring characteristics of a substance is provided. The apparatus includes a light source to generate light to form an image. A splitter transmits the light from the light source to a first lens, which collimates the light. A second lens receives the collimated light and is adapted to oscillate with respect to the substance and adapted to transmit and focus the light to a focal region within the substance, such that the oscillation will cause the focal region to pass back and forth through the substance and its surfaces/interfaces. A sensor receives light reflected from the focal region and provides a signal indicative of characteristics of the substance at the focal region.